



# FortiManager 400E

# Register for Support

Register your Fortinet product to receive:

- Technical Support
- New product features
- Protection from new threats

Vous devez enregistrer le produit pour recevoir:

- Support technique
- Nouvelles fonctionnalités du produit
- Protection contre de nouvelles menaces

La reistrazione ti permette di usufruire di:

- Supporto Tecnico
- Nuove funzionalita
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- Nuevas funcionalidades del producto
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本日、フォーティネット製品の登録をしてください。

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テクニカルサポート • 新機能の追加 • 新しい脅威への防御

请马上注册

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April 06, 2017

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<https://support.fortinet.com>

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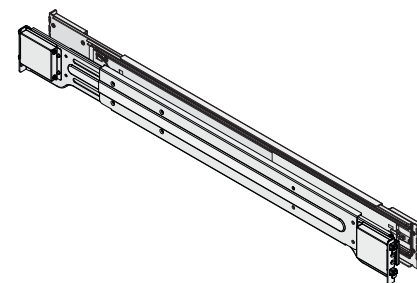
# Box Includes



FortiManager 400E



QuickStart Guide



(2) Rail-Mount Brackets



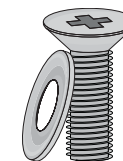
(2) Power Cables



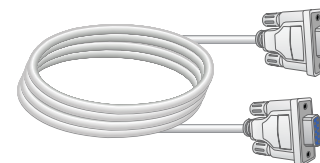
(2) M4 Flat Head Screws



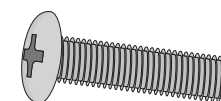
Ethernet Cable



(8) M5 12L Flat Head Screws & Washers

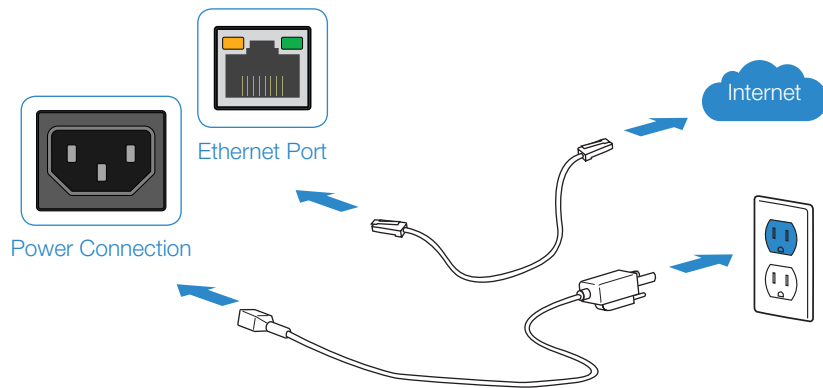


Console Cable



(2) M5 20L Truss Head Screws

## 1 Basic Connections



Connect your device to a [power outlet](#) and an [Internet connection](#). This is usually a modem, but could also be another device on your network.

## 2 Setup Options

A

Web Browser

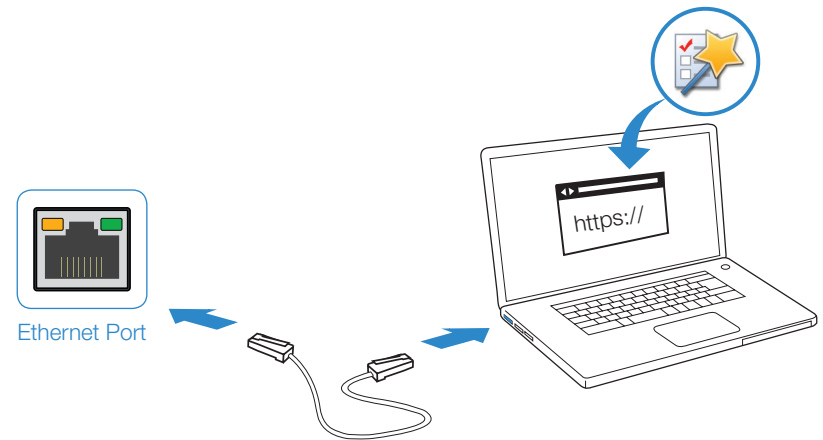
Setup Wizard (p.6)

B

Terminal Emulation

With console cable (p.6)

## A Web Browser



### To Connect to the GUI

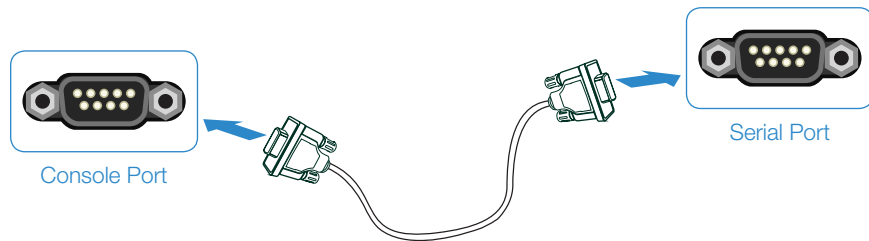
1. Connect the [Ethernet cable](#).
2. Configure the management computer to be on the same [subnet](#) as the internal interface as the FortiManager unit:

**IP address:** 192.168.1.X

**Netmask:** 255.255.255.0

3. Visit [192.168.1.99](#) in your web browser.
4. Login using username "[admin](#)" and [no password](#).
5. [Configure your device](#) and save your settings.
6. [Register your device](#) from the dashboard page.

## B Terminal Emulation



### To Connect to the CLI

1. Connect the device's [console port](#) to the management computer using the provided [console cable](#).
2. Start a [terminal emulation program](#) on the management computer, select the [COM port](#), and use the following settings:

**Baud Rate:** 9600  
**Data bits:** 8  
**Parity:** None  
**Stop bits:** 1  
**Flow Control:** None

3. Press [Enter](#) on your keyboard to [connect to the CLI](#).
4. Login using username "[admin](#)" and no password. You can now proceed with configuring your device.

## 3 Installation

The FortiManager unit can be mounted in any standard [19 inch rack](#) unit with the provided mounting hardware.

*Please also read "Cautions and Warnings" on page 18 prior to installing your device.*

**Caution:** The rack must be [stabilized](#) before sliding the unit out for servicing. Failure to stabilize may cause the rack to tip over.

Electrostatic discharge ([ESD](#)) can damage your Fortinet equipment.

To avoid [personal injury](#) or damage to the unit, it is recommended that [two or more](#) people install the unit into the rack.

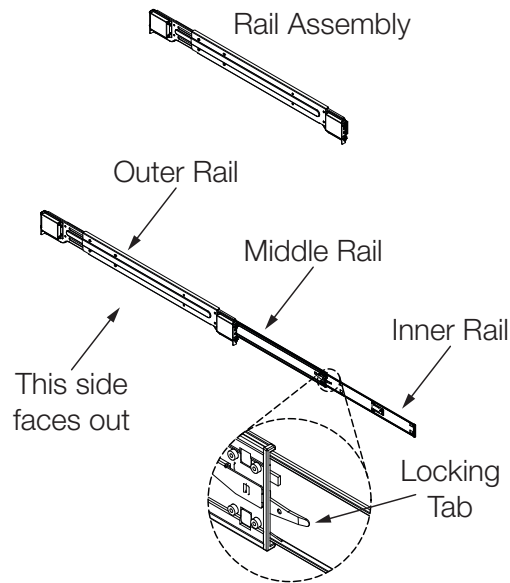
Do not place [heavy objects](#) on the unit.

### Rack Precautions

- Ensure the [leveling jacks](#) on the bottom of the rack are [fully extended](#) to the floor with the full weight of the rack resting on the jacks.
- For single rack installation, [stabilizers](#) should be attached to the rack.
- For multiple rack installations, the racks should be [coupled together](#).
- Ensure the rack is [stable](#) before extending a component from the rack.
- Only extend [one component](#) at a time; extending [two or more](#) simultaneously may cause the rack to become [unstable](#).

**Note:** After installing the device into the [rack](#), install the [hard disk drives](#) into the device.

## Rack Rail Parts



The **rail assembly** consists of three parts:

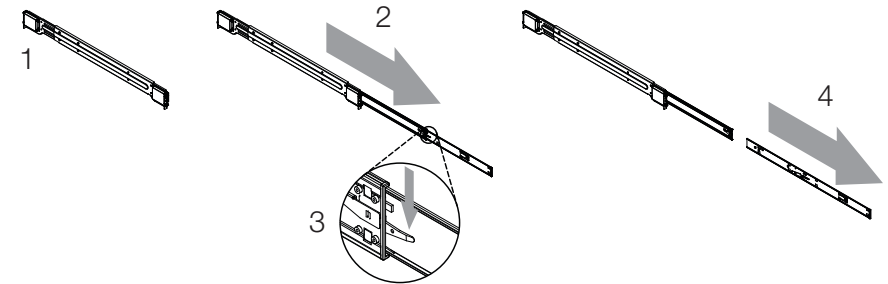
- Outer rail: connects to the rack
- Middle rail: connects the inner and outer rails
- Inner rail: connects to the device.

The **inner rail** has a **locking tab** that locks the device into place when it is installed and pushed into the rack. This **prevents** the device from **sliding** fully out of the rack when the device is being worked on.

There are **four steps** to install the device into the rack:

1. **Disassemble** the rail assembly
2. Attach the **inner rails** to the device
3. Install the **outer rails** on a rack
4. Install the device into **the rack**

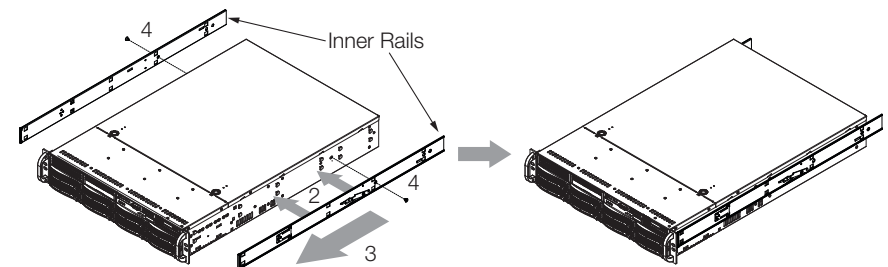
## Disassemble the rail assembly:



1. **Identify** the left and right rail **assemblies**.
2. **Pull out** the inner rail until it is fully extended.
3. Press down the **locking tab** to release the inner rail.
4. Remove the **inner rail** from the outer rail.
5. Repeat steps 2 - 4 for the remaining rail assembly.

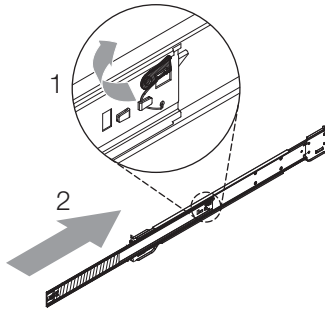
**Caution:** Do not pick up the server by the **front handles**. They are designed to only pull the unit from the rack.

## Attach the inner rails to the device:

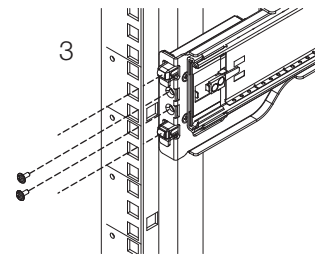


1. Ensure that the **right and left rails** are correctly identified.
2. Place the **inner rail** against the side of the device, ensuring that the **hooks** on the side of the device align with the **holes** in the rail.
3. Slide the rail towards the front of the device until the rail **clicks** into the **locked position**.
4. Optionally, **secure** the rail to the **device** using the provided **M4 Flat Head screws**.
5. Repeat steps 2 - 4 for the remaining rail.

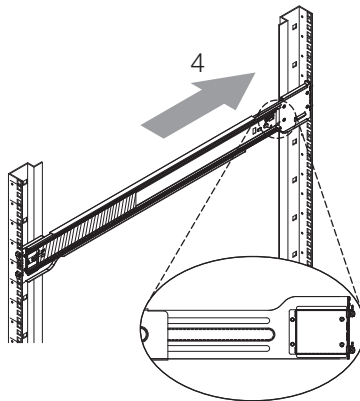
## Install the outer rails on a rack:



1. Press up on the **locking tab** on the back of the **middle rail**.
2. Push the **middle rail** back into the outer rail.

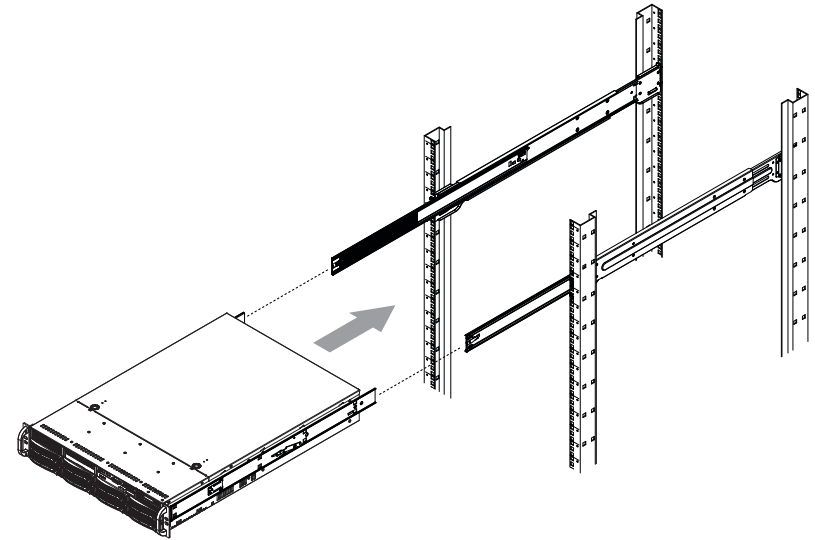


3. Hang the **hooks** on the front of the outer rail to the **slots** on the rack. Use two of the provided **washers** and **M5 12L Flat Head screws** to secure the rail to the rack.



4. **Pull out** the back of the outer rail to adjust its **length** until it fits properly in the rack.
5. Hang the **hooks** on the back of the rail to the **slots** on the back of the rack. Use two of the provided **washers** and **M5 12L Flat Head screws** to secure the rail to the rack.
6. Repeat steps 1 - 5 for the remaining rail.

## Install the device into the rack:



1. Ensure that the inner rails are **properly connected** to the device, and that the outer rails are **securely attached** to the rack.
2. Pull the **middle rail** out from the front of the outer rail until it **locks**.
3. Align the inner rails with the middle rails and **slide the device** onto the rails until the **locking tab** on the inner rails **clicks** into the front of the middle rails. Ensure that **even pressure** is applied to both sides of the device while doing this.
4. Push down the **locking tabs** on both sides at the same time, then push the device all the way into the rack.
5. When the unit has been completely pushed into the rack, the **locking tabs** will click into the locked position.
6. For additional security, secure the chassis handles to the front of the rack with the provided **M5 20L Truss Head screws**.

After the device is **installed** in the rack and the **hard disk drives** are installed, plug the supplied **power cables** into the rear of the unit and then into **grounded electrical outlets** or **separate power sources**, such as uninterruptible power supplies (UPS) or power distribution units (PDU).

**Note:** Each power cable should be connected to a **different power source**. In this way, if one power source fails, the other may still be **operational** and the unit will not lose **power**.

## Power

- **Green:** The unit is on
- **Off:** The unit is off

## Hard Drive Activity

- **Flashing Amber:** Rebooting

- **Off:** No HDD activity

## Ethernet Ports Activity

- **Flashing Green:** Transmitting & receiving data

- **Off:** No link established

## Information

- **Red:** CPU overheat

- **Flashing Red:** Fan failure

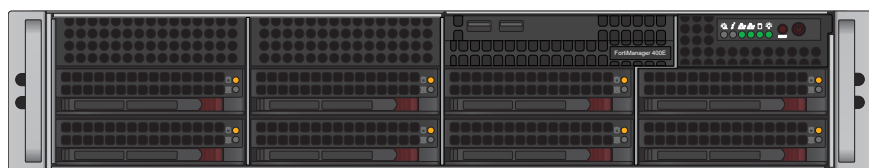
- **Flashing Red at 1Hz:** One power supply has failed

- **Off:** Normal operation

## Power Fail

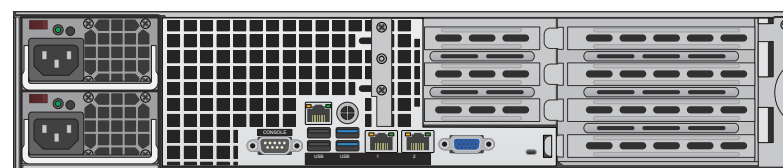
- **Red:** A power supply has failed

- **Off:** Normal operation



## Hard Drive Activity

- **Flashing Green:** HDD in use
- **Off:** No HDD activity



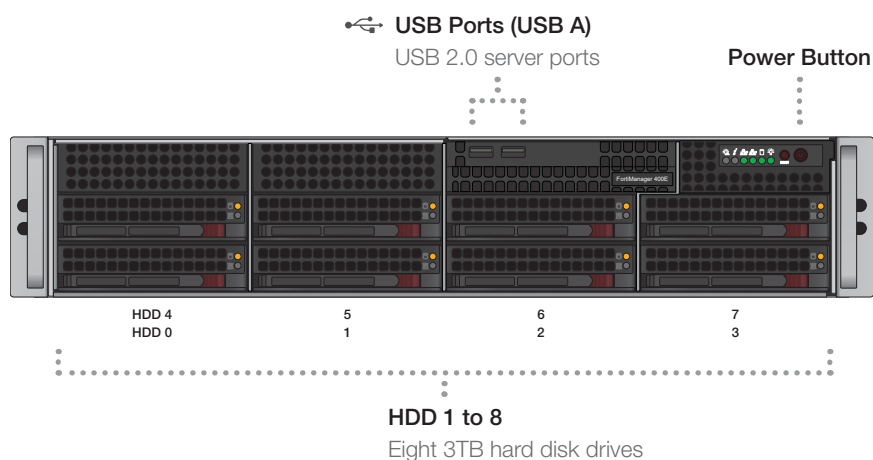
## Ethernet Ports Speed

- **Amber:** Connected at 1Gbps
- **Green:** Connected at 100Mbps
- **Off:** Connected at 10 or not in use

## Ethernet Ports Link/Activity

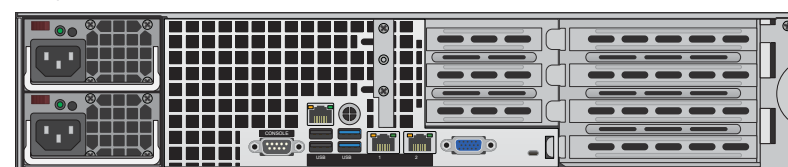
- **Flashing Amber:** Transmitting & receiving data
- **Off:** No link established





## Power

100-240V AC, 6.1-2.6A, 50-60Hz  
Redundant power supplies



## Ethernet Ports 1 - 2 (RJ-45)

Gigabit Ethernet network connections

## USB Ports (USB A)

USB 3.0 server ports

## IPMI Port (RJ-45)

Do not use

To prevent misuse, change the default password

See <http://cookbook.fortinet.com/changing-ipmi-password>

## USB Ports (USB A)

USB 2.0 server ports

## Console Port (DB-9)

Optional connection to the management computer

Provides access to the CLI

## Cautions and Warnings

### Environmental Specifications

Ambient operating temperature: 0C to 40C

Rack Mount Instructions - The following or similar rack-mount instructions are included with the installation instructions:  
Instructions de montage en rack - Les instructions de montage en rack suivantes ou similaires sont incluses avec les instructions d'installation:

Elevated Operating Ambient - If installed in a closed or multi-unit rack assembly, the operating ambient temperature of the rack environment may be greater than room ambient. Therefore, consideration should be given to installing the equipment in an environment compatible with the maximum ambient temperature (Tma) specified by the manufacturer.  
Température ambiante élevée – S'il est installé dans un rack fermé ou à unités multiples, la température ambiante de fonctionnement de l'environnement du rack peut être supérieure à la température ambiante de la pièce. Par conséquent, il est important d'installer le matériel dans un environnement respectant la température ambiante maximale (Tma) stipulée par le fabricant.

Reduced Air Flow - Installation of the equipment in a rack should be such that the amount of air flow required for safe operation of the equipment is not compromised.  
Ventilation réduite – Installation de l'équipement dans un rack doit être telle que la quantité de flux d'air nécessaire au bon fonctionnement de l'équipement n'est pas compromise.

Mechanical Loading - Mounting of the equipment in the rack should be such that a hazardous condition is not achieved due to uneven mechanical loading.  
Chargement Mécanique – Montage de l'équipement dans le rack doit être telle qu'une situation dangereuse n'est pas lié à un chargement mécanique inégal.

Circuit Overloading - Consideration should be given to the connection of the equipment to the supply circuit and the effect that overloading of the circuits might have on overcurrent protection and supply wiring. Appropriate consideration of equipment nameplate ratings should be used when addressing this concern.

Surtenison – Il convient de prendre l'ensemble des précautions nécessaires lors du branchement de l'équipement au circuit d'alimentation et être particulièrement attentif aux effets de la suralimentation sur le dispositif assurant une protection contre les courts-circuits et le câblage. Ainsi, il est recommandé de tenir compte du numéro d'identification de l'équipement.

Reliable Earthing - Reliable earthing of rack-mounted equipment should be maintained. Particular attention should be given to supply connections other than direct connections to the branch circuit (e.g. use of power strips).  
Fiabilité de la mise à la terre– Fiabilité de la mise à la terre de l'équipement monté en rack doit être maintenue. Une attention particulière devrait être accordée aux connexions d'alimentation autres que les connexions directes au circuit de dérivation (par exemple de l'utilisation de bandes de puissance).

*Refer to specific Product Model Data Sheet for Environmental Specifications (Operating Temperature, Storage Temperature, Humidity, and Altitude)*

*Référez à la Fiche Technique de ce produit pour les caractéristiques environnementales (Température de fonctionnement, température de stockage, humidité et l'altitude).*

### Safety

**Warning:** Equipment intended for installation in Restricted Access Location.  
**Avertissement:** Le matériel est conçu pour être installé dans un endroit où l'accès est restreint.

Battery – Risk of explosion if the battery is replaced by an incorrect type. Do not dispose of batteries in a fire. They may explode. Dispose of used batteries according to your local regulations. IMPORTANT: Switzerland: Annex 4.10 of SR814.013 applies to batteries.

Batterie – Risque d'explosion si la batterie est remplacée par un type incorrect. Ne jetez pas les batteries au feu. Ils peuvent exploser. Jetez les piles usagées conformément aux réglementations locales. IMPORTANT: Suisse: l'annexe 4.10 de SR814.013 s'appliquent aux batteries.

警告  
本電池如果更換不正確會有爆炸的危險  
請依製造商說明書處理用過之電池

**Caution:** Disconnect power supply cords before servicing  
**Attention:** Débranchez les cordons de la source d'alimentation avant tout entretien.

**Caution:** Slide/rail mounted equipment is not to be used as a shelf or a work space.  
**Attention:** Un équipement monté sur bâti ne doit pas être utilisé sur une étagère ou dans un espace de travail.

## Regulatory Compliance

### Federal Communication Commission (FCC) – USA

This device complies with Part 15 of FCC Rules. Operation is subject to the following two conditions:  
(1) this device may not cause harmful interference, and  
(2) this device must accept any interference received; including interference that may cause undesired operation.

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy, and if it is not installed and used in accordance with the instruction manual, it may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference, in which case the user will be required to correct the interference at his own expense.

**WARNING:** Any changes or modifications to this product not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment

### Industry Canada Equipment Standard for Digital Equipment (ICES) – Canada

CAN ICES-3 (A) / NMB-3 (A)

This digital apparatus does not exceed the Class A limits for radio noise emissions from digital apparatus set out in the Radio Interference Regulations of the Canadian Department of Communications.

Cet appareil numérique n'émet pas de bruits radioélectriques dépassant les limites applicables aux appareils numériques de la classe A prescrites dans le Règlement sur le brouillage radioélectrique édicté par le ministère des Communications du Canada.

### European Conformity (CE) - EU

This is a Class A product. In a domestic environment, this product may cause radio interference, in which case the user may be required to take adequate measures.



### Product Safety Electrical Appliance & Material (PSE) - Japan

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### Voluntary Control Council for Interference (VCCI) – Japan

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### Bureau of Standards Metrology and Inspection (BSMI) – Taiwan

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### China

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### Korea Certification (KC) - Korea

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When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not.

Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.) Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for your own use and reverse engineering for debugging such modifications. You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

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b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable. It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

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